Serial Board V3.0

Summary
The Serial Board links the main computer to RS232 peripherals (e.g. sensors, other boards) by dividing a USB 2.0 signal into 14 RS232-level ports.

Specifications
- Number of ports: 15
- Width: 5.25"
- Height: 6.75"
- Location: Upper Hull Rack

Connectors
- Port 1 (J1)
  - 1x4 Molex MicroFit
  - 1: +5 VDC
  - 2: GND
  - 3: TX
  - 4: RX
- Ports 2-14 (J2-J14)
  - 1x3 Molex MicroFit
  - 1: TX
  - 2: GND
  - 3: RX

Essential Hardware
- USB 2.0 Hub (1) – SMSC USB2507 [H1]: 7 USB 2.0 signals
- UART (7) – FTDI FT2232D [S1-S7]: USB to serial adapter
- ADM232L (7) [U1-U7]: 0-5V to +/- 12V LT
- TPS3809K33 (1) [U8]: 3.3V supervisor
- TPD2E001 (1) [U9]: Hub ESD protection
- LM3904 (1) [U10]: 5V to 3.3V voltage regulator
- 93LC46B (7) [S*/U2]: 5V EEPROM
- 24AA00 (7) [H1/U2]: 3.3V EEPROM

LEDs
- U10: Power (Green)
- J1 – J14: TX/RX (Amber)
- Hub: FTDI Unit Activity (Green)